

WHAT IS CLAIMED IS:

1. A multifunction vacuum cleaner comprising:

a nozzle assembly for drawing in air, including entrained dust or dirt, from an area to be cleaned;

a main body having a cyclone dust collector for centrifugally separating the dust or dirt from the air drawn into the cyclone dust collector, a dust receptacle for collecting the separated dust or dirt separated in the cyclone dust collector, a main body frame having an upper casing and a lower casing, a button operation portion formed on an upper part of the main body frame, and a connecting projection, integrally formed with the button operation portion, capable of moving together with the button operation portion; and

a frame portion, pivotably connected with the nozzle assembly, and having a connecting groove capable of receiving the connecting projection therein.

2. The multifunction vacuum cleaner of claim 1, wherein the button operation portion further comprises:

a button operation portion body which is semicircular;

a biasing member for biasing the button operation portion body toward a desired position;

a pressing button integrally formed with the button operation portion body at a top part thereof; and

a guide extended from one side of the button operation portion.

3. The multifunction vacuum cleaner of claim 2, wherein the main body frame comprises a biasing member supporting portion for supporting the biasing member, a guide groove for guiding movement of the guide, and an opening through which the connecting projection protrudes, whereby the button operation portion moves in the main body as the pressing button of the button operation portion is depressed.

4. The multifunction vacuum cleaner of claim 1, the main body comprises a handle portion to permit a user to grab on the upper part.

5. The multifunction vacuum cleaner of claim 4, the handle portion is shaped to correspond to the shape of the button operation portion and includes a hollow recess therein.

6. The multifunction vacuum cleaner of claim 1, wherein the main body further comprises on one side thereof:

a rotatable first cord holder for winding therearound and holding a power cord of the vacuum cleaner; and

a stationary second cord holder formed at a predetermined distance from the first cord holder.

7. The multifunction vacuum cleaner of claim 1, wherein the main body further comprises a communicating member disposed at a bottom part of the main body for fluidly communicating with the nozzle assembly.

8. The multifunction vacuum cleaner of claim 7, wherein the main body includes a rear portion, and further comprises:

a flexible hose capable of being connected to the communicating member;

a hose supporting member for supporting the flexible hose; and

a discharging grill through which clean air is discharged.

9. The multifunction vacuum cleaner of claim 8, wherein the flexible hose is removably connected to the communicating member, and when removed, capable of being connected with an auxiliary accessory on one end thereof.

10. The multifunction vacuum cleaner of claim 1, wherein the main body further comprises an on/off switch located at a front side of the main body.

11. The multifunction vacuum cleaner of claim 1, wherein the frame portion further includes at least one supporter formed on at least one side thereof to provide support for the main body when it is mounted therein.

12. The multifunction vacuum cleaner of claim 11, wherein each supporter has a mounting guide on one side of the supporter for the mounting of accessories for use with the vacuum cleaner.

13. The multifunction vacuum cleaner of claim 1, wherein the connecting groove further includes a slanted part for easier insertion of the main body into the frame portion.

14. The multifunction vacuum cleaner of claim 1, wherein the frame portion further comprises wheels on both sides of the bottom thereof to permit easier motion of the vacuum cleaner over the area to be cleaned.

15. The multifunction vacuum cleaner of claim 1, wherein the frame portion has a frame handle portion extending upwardly from the top of the frame portion, and a handle recess corresponding to the button operation portion of the main body.

16. A multifunction vacuum cleaner for cleaning a surface comprising:
a nozzle assembly for drawing in air, including entrained dust or dirt, from the surface;
a main body having a cyclone dust collector for centrifugally separating the dust or dirt from the air drawn into the cyclone dust collector, a dust receptacle for collecting the separated dust or dirt separated in the cyclone dust collector, a main body frame, a button operation portion including a connecting projection capable of moving together with the button operation portion; and
a frame portion, pivotably connected with the nozzle assembly, and having a connecting groove capable of receiving the connecting projection therein.

17. The multifunction vacuum cleaner of claim 16, wherein the button operation portion further comprises:

an essentially semicircular button operation portion body;
a biasing member for biasing the button operation portion toward a desired position;
a pressing button integrally formed with the button operation portion body disposed at a top part thereof; and
a guide extended from one side of the button operation portion.